

The Knowledge Bank at The Ohio State University

Ohio State Engineer

Title: Front Matter

Issue Date: 1945-06

Publisher: Ohio State University, College of Engineering

Citation: Ohio State Engineer, vol. 28, no. 7 (June, 1945), 1-4.

URI: <http://hdl.handle.net/1811/36176>

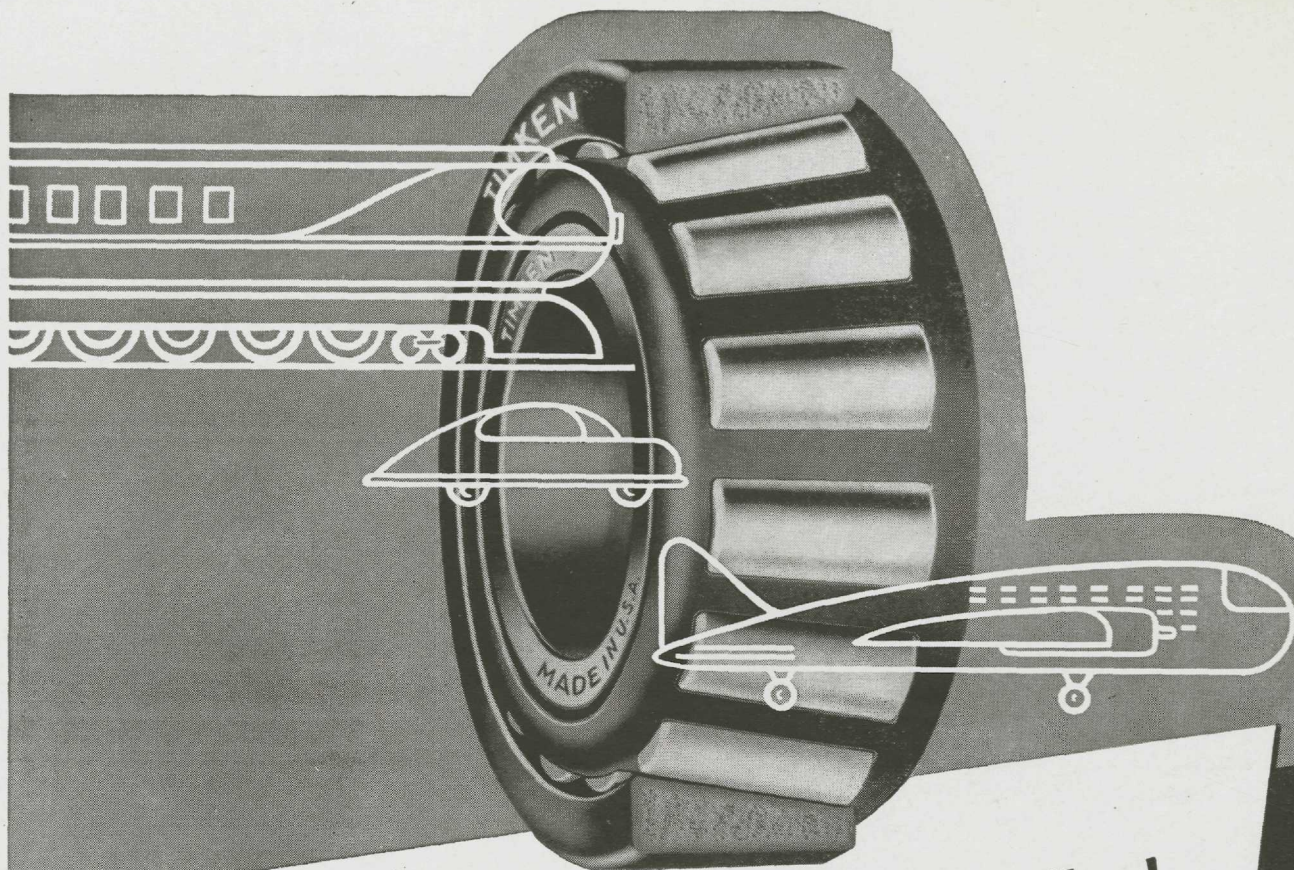
THE OHIO STATE ENGINEER

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v. 28, no. 7
June 1945
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MEMBER
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Price 15c

JUNE, 1945



Prepare for Future Responsibilities Now! **LEARN TO KNOW YOUR BEARINGS**

The post-war world will be mechanized to an extent that cannot be completely foreseen now. Wheels and wings will play a greater and more important part in the world of the future than ever before—and so, consequently will bearings.

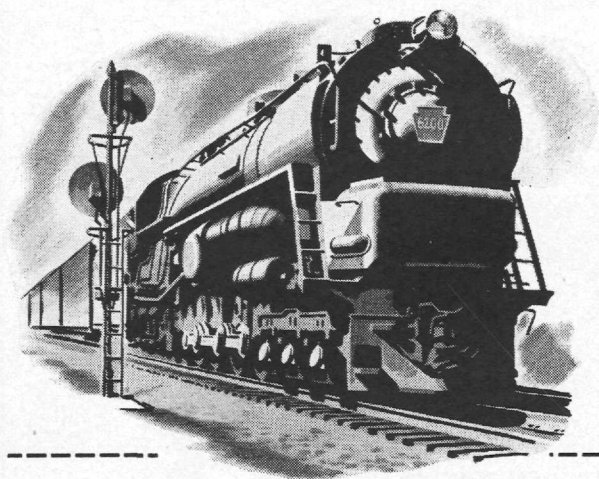
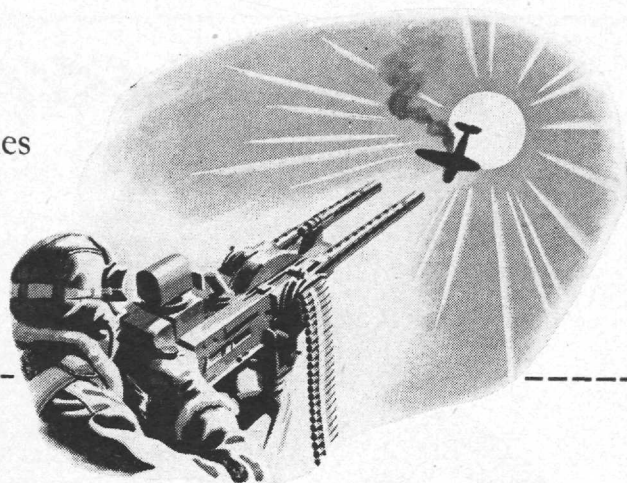
In view of the present dominant position of Timken Tapered Roller Bearings, it is not too much to say that these bearings will figure still more importantly in future mechanical developments; for there are few bearing requirements that Timken Bearings cannot meet.

So while you still are studying, it will pay you to learn to know Timken Bearings thoroughly—their design, application, and potentialities. Then you'll be still better equipped for your job when college days are over and you begin your career as a full-fledged engineer. The Timken Roller Bearing Company, Canton 6, Ohio.

TIMKEN
TRADE-MARK REG. U. S. PAT. OFF.
TAPERED ROLLER BEARINGS

In a bomber a GUNNER uses a new gunsight lamp that permits him to aim *directly into the sun* — blasting enemy planes that otherwise would be invulnerable because of the blinding glare.

... the name on the GUNSIGHT LAMP is Westinghouse.

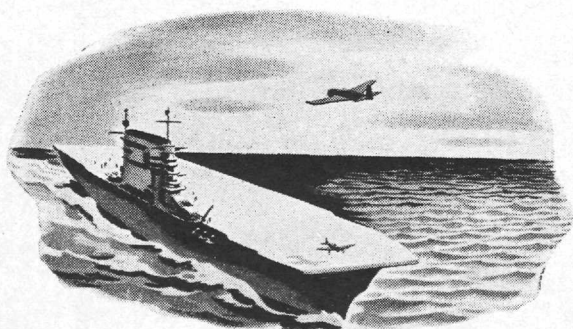
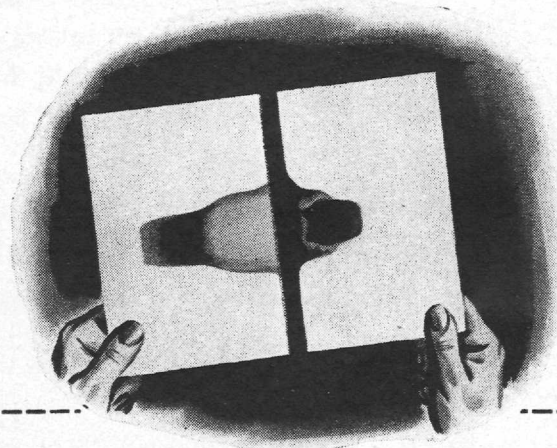


On a railroad an ENGINEER gets smoother operation — and 25% more power — from his steam locomotive because of a revolutionary new steam turbine drive.

... the name on the TURBINE DRIVE is Westinghouse.

In an Army arsenal a BALLISTICS EXPERT photographs projectiles, smashing through armor plate, with an x-ray tube that takes a picture in *1/1,000,000th of a second*.

... the name on the X-RAY TUBE is Westinghouse.



On a carrier a PLANE DIRECTOR uses a new kind of elevator to hoist planes on deck faster — keeping the deck cleared and getting fighters into the air quicker.

... the name on the ELEVATOR is Westinghouse.

Westinghouse
PLANTS IN 25 CITIES OFFICES EVERYWHERE

TODAY — Westinghouse skill in research and engineering is constantly at work, developing new and better war materials for final Victory.

TOMORROW — This same research and engineering skill will mean more dependable, more efficient industrial equipment and appliances for the home.

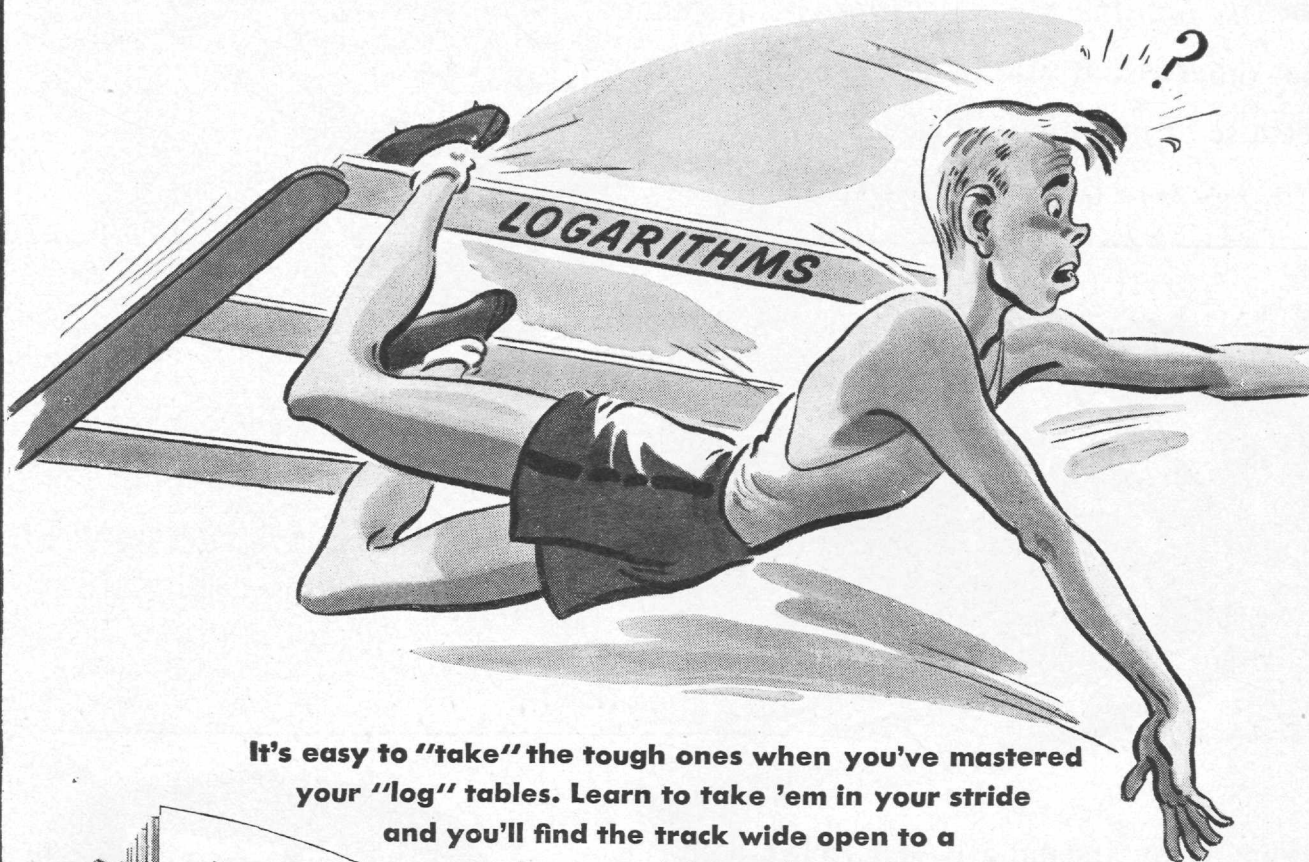
Tune in: JOHN CHARLES THOMAS—Sunday 2:30 pm, EWT, NBC

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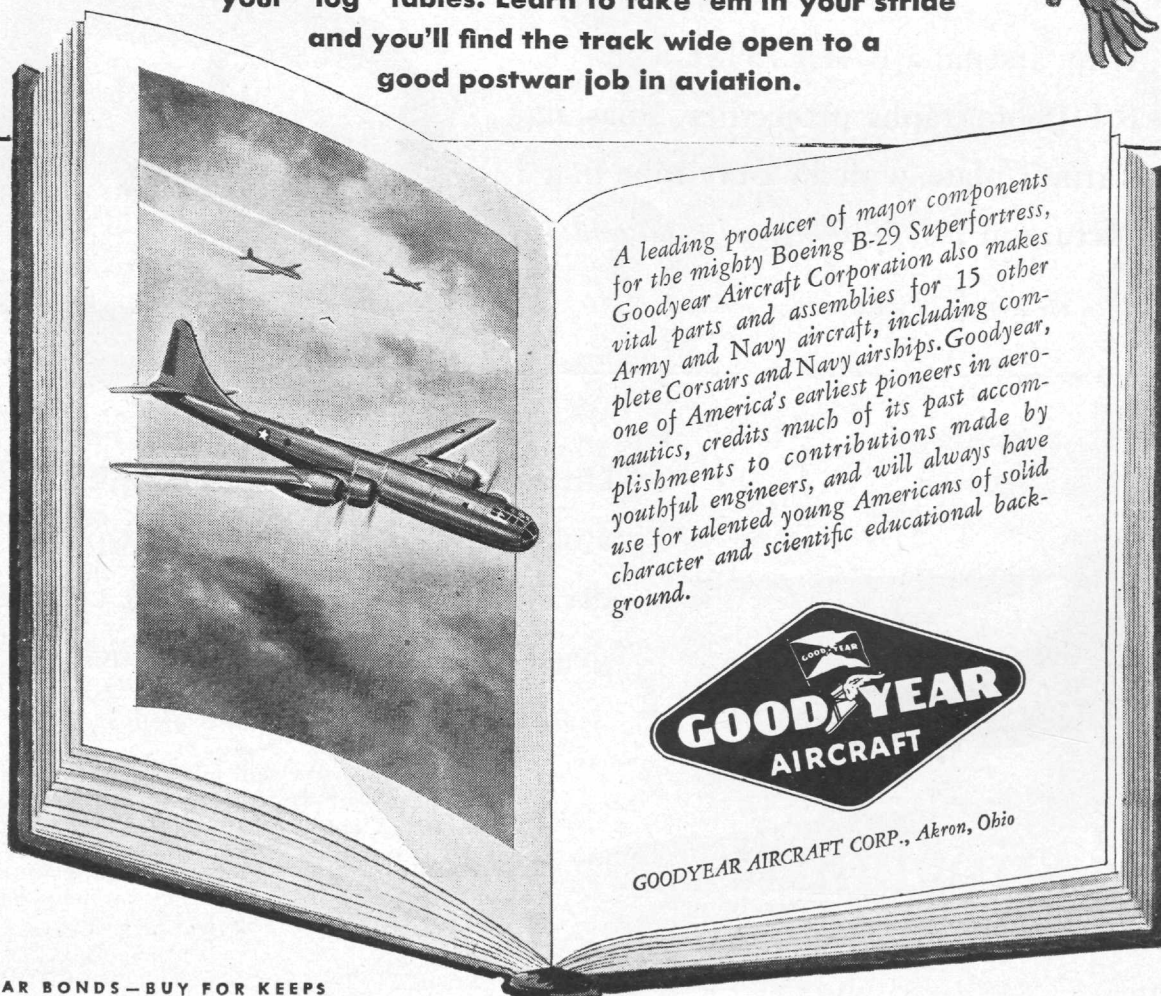
June, 1945

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EASY AS FALLING OFF A "LOG"



It's easy to "take" the tough ones when you've mastered your "log" tables. Learn to take 'em in your stride and you'll find the track wide open to a good postwar job in aviation.



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The

OHIO STATE ENGINEER

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Our Cover

Onward to V-J day! These ships form part of a giant convoy to the Pacific theater. See page 8 for details about our new Merchant Marine.

—Courtesy Westinghouse.

Our Frontispiece

No, this is not a crystal gazer and his crystal, but tomorrow's lighting possibilities can be foreseen here. Coated inside with phosphors, it lights when electronically bombarded.

—Courtesy Westinghouse.

ERNEST C. GRABILL, Editor

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Published in the months of November, December, February, March, April, May and June by the students in the College of Engineering, The Ohio State University, Columbus, Ohio. Subscription price, 97 cents (tax 3 cents) per year for seven copies. Single copies, 15 cents each. Make checks and money orders payable to THE OHIO STATE ENGINEER.

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Entered as second-class matter May 15, 1912, at the post office at Columbus, Ohio, under the Act of March 3, 1879. Acceptance for mailing at special rate postage provided for in Section 1103, Act of October 3, 1917. Authorized December 8, 1922

June, 1945

CLEANING STEEL with BRUSHES of FLAME



Without paint protection, the strongest exposed steel structures would eventually succumb to rust. Now modern flame-cleaning makes paint cling closer to steel, forming a better, longer-lasting shield against corrosion. It speeds repainting by rapidly cleaning and dehydrating the surface to receive the priming coat.

This process is one of many advanced metal-treating methods fostered by Air Reduction. Valuable in war, these methods promise even greater usefulness when peace returns.

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